

SEP 23 2003

510(k) Summary

K032709
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Date

August 28, 2003

Submitter

PLUS Orthopedics
6055 Lusk Blvd
San Diego, CA 92121

Contact person

J.D. Webb
1001 Oakwood Blvd
Round Rock, TX 78681
512-388-0199

Common name

Hip stem

Classification name

Prosthesis, hip, semi-constrained, metal/polymer, uncemented per 21 CFR Sec. 888.3360

Equivalent Device

The modifications to this device continue to be equivalent in design, fundamental scientific technology, indications and material to the Modular PLUS stem cleared on K030971.

Device Description

The Modular PLUS Revision Stem is a cementless two part modular stem that consists of distal anchorage module and proximal revision module, connected by a multi-stage tapered coupling, secured by a cylindrical screw.

The proximal module has a standard 12/14 taper to accept modular heads.

The Modular PLUS stem is manufactured from Ti-6Al-4V alloy that conforms to ASTM F136. The surface is grit blasted with corundum to produce a surface roughness of 4-6µm.

This submission adds three additional proximal modules. These modules, designated as size AX, BX and CX, have the same circumferential dimensions as the previously cleared AS/AL, BS/BL and CS/CL proximal modules. The differences lie in the overall length of the components. The AX module increases by 15.4mm, the BX module by 18.7mm and the CX module by 22.7mm.

Intended Use

The Modular PLUS Revision Stem is intended for cementless use in fractures of the femur where a long section of the bone is damaged and the stem must anchor into the distal half of the femur.

Summary of Technological Characteristics Compared to Predicate Device

The modifications to this device continue to be equivalent in design, fundamental scientific technology, indications and material to the Modular PLUS stem cleared on K030971.

Summary Nonclinical Tests

Engineering analysis shows that the bending stresses in the taper connection are less for the modified, longer modules.



SEP 23 2003

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

PLUS Orthopedics
c/o Mr. J.D. Webb
1001 Oakwood Boulevard
Round Rock, Texas 78681

Re: K032709

Trade/Device Name: Modular PLUS Revision Stem

Regulation Numbers: 21 CFR 888.3360

Regulation Names: Hip joint femoral (hemi-hip) metallic cemented or uncemented prosthesis

Regulatory Class: II

Product Code: LWJ

Dated: August 28, 2003

Received: September 2, 2003

Dear Mr. Webb:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

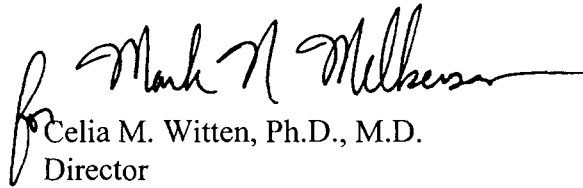
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements; including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Mr. J. D. Webb

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4659. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

A handwritten signature in black ink, appearing to read "Celia M. Witten", is written over a horizontal line.

Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative and
Neurological Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

510(k) number (if known): K032709

Device Name: Modular PLUS Revision Stem

Indications for Use:

Modular PLUS Revision Stem
Indications for Use

The Modular PLUS Revision Stem is intended for cementless use in fractures of the femur where a long section of the bone is damaged and the stem must anchor into the distal half of the femur.

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-off)
Division of General, Neurological and Restorative Devices

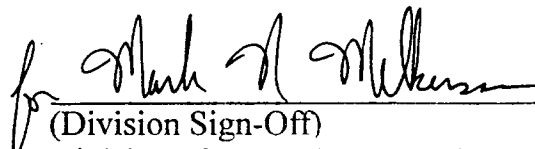
510(k) Number _____

Prescription Use _____
(per 21 CFR 801.109)

OR

Over-the-Counter Use _____

(Optional format 1-2-96) _____


(Division Sign-Off)
Division of General, Restorative
and Neurological Devices

510(k) Number K032709